

Amendments to the Claims:

Please cancel claims 1-14 as presented in the underlying International Application No. PCT/DE2005/000373.

Please add new claims 15-32 as indicated in the listing of claims below.

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-14 (canceled)

Claim 15 (new): An artificial intervertebral disk insertable between two adjacent vertebral bodies of a patient, the artificial intervertebral disk comprising:

two outer elements, each associated with one of the two vertebral bodies,
an intermediate element positively joining the two outer elements in a restricted, articulated manner such that torsional moments and shear forces are transmittable, wherein each of the two outer elements have a contour and is joined to the intermediate element at the contour.

Claim 16 (new): The intervertebral disk as recited in claim 15, wherein the contour is concave.

Claim 17 (new): The intervertebral disk as recited in claim 15, wherein the contour forms a recess.

Claim 18 (new): The intervertebral disk as recited in claim 15, wherein the contour has a friction-optimized surface texture.

Claim 19 (new): The intervertebral disk as recited in claim 15, wherein the contour has a surface texture that increases the friction, at least in sections, so as to create a non-positive connection between the two elements and the intermediate element at the sections.

Claim 20 (new): The intervertebral disk as recited in claim 15, wherein the contour is oversized relative to the intermediate element such that a compression of the intermediate element allows a defined deformation of the disk.

Claim 21 (new): The intervertebral disk as recited in claim 20, wherein the compression stems from a movement by the patient.

Claim 22 (new): The intervertebral disk as recited in claim 15, wherein the intermediate element has an annular closed shape.

Claim 23 (new): The intervertebral disk as recited in claim 22, wherein the intermediate element has one of a circular, an oval and a kidney shape.

Claim 24 (new): The intervertebral disk as recited in claim 22, wherein the intermediate element defines an annular central axis and has at least one of an ogival, an oval and a circular cross section crosswise to the axis, at least in sections.

Claim 25 (new): The intervertebral disk as recited in claim 22, wherein the intermediate element defines an annular central axis and has differing cross sections in a direction of the central axis and wherein the contour is correspondingly shaped.

Claim 26 (new): The intervertebral disk as recited in claim 15, wherein a cross section of the intermediate element is widened in at least one of a sagittal plane, an intermediate plane, a frontal plane and a transversal plane of the patient.

Claim 27 (new): The intervertebral disk as recited in claim 15, wherein the intermediate element is at least partially made of a polymer.

Claim 28 (new): The intervertebral disk as recited in claim 27, wherein the polymer includes polyethylene.

Claim 29 (new): The intervertebral disk as recited in claim 15, wherein the two outer elements include anchoring elements disposed on a side facing the vertebral bodies and configured to anchor the outer elements in the bone of the vertebral bodies.

Claim 30 (new): The intervertebral disk as recited in claim 29, wherein the anchoring elements include anchoring pins.

Claim 31 (new): The intervertebral disk as recited in claim 29, wherein the outer elements and anchoring elements are coated with a biocompatible material on the side facing the vertebral bodies.

Claim 32 (new): The intervertebral disk as recited in claim 29, wherein the biocompatible material includes titanium.